

# NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

## FACT SHEET

(pursuant to NAC 445A.236)

**Permittee Name:** 7-Eleven, Inc.  
P.O. Box 711  
Dallas, TX 75221

**Permit Number:** NV0023311

**Location:** 7-Eleven Store #25586  
1705 Las Vegas Blvd. South, Las Vegas, Clark County, NV 89104  
Latitude: 36° 09' 04" N, Longitude: 115° 09' 08" W  
Township 21S, Range 61E, NW¼ SW¼ Section 3

**General:** 7-Eleven Store #25586 is located at 1705 Las Vegas Blvd. South, Las Vegas, Clark County, NV. The facility consists of a convenience store and self-service gasoline station. A prior leakage of gasoline from the underground storage tank system has contaminated the shallow, non-potable groundwater with petroleum hydrocarbons. Petroleum hydrocarbon contaminants of concern in the shallow groundwater at this site are: benzene, 180 µg/L; ethylbenzene, 1.7 µg/L; xylenes (total), 2.1 µg/L; toluene, non-detect; methyl tertiary butyl ether (MTBE), 54 µg/L; and total petroleum hydrocarbons; 1.2 mg/L. Presently, the untreated groundwater would exceed the Division's discharge limits for benzene, MTBE and TPH. The facility is installing a groundwater remediation system and will commence discharge under the authorization of Temporary Discharge Permit #TNEV2003404. A National Pollutant Discharge Elimination System (NPDES) Permit is required since the treatment system will likely operate more than six months. The facility's proposed groundwater remediation system will consist of groundwater/soil vapor extraction followed by an air stripping tower and activated carbon adsorption for the removal of petroleum contaminants. The treated groundwater will be discharged to a Clark County storm drain inlet located near the intersection of Las Vegas and Oakey Boulevards. Vapor-phase carbon adsorption will be used to treat the extracted soil gases and air stripper exhaust. The Clark County Department of Air Quality Management separately regulates the gaseous emissions from this treatment system. The Division's Bureau of Corrective Actions will regulate the soil and groundwater cleanup activities at this site.

**Receiving Water Characteristics:** The receiving water for the treated groundwater is the Las Vegas Wash via the Clark County storm drain system. Water quality standards for the Upper Las Vegas Wash are specified in NAC 445A.199.

Depth to groundwater occurrence in the shallow, non-potable aquifer at this site is 9 ft. below ground surface. Groundwater flow direction in this shallow, non-potable aquifer is east towards the Las Vegas Wash. The shallow groundwater results predominantly from lawn irrigation (i.e., over-irrigation) and stormwater runoff events. The background total dissolved solids (TDS) content of the shallow groundwater is 2,720 mg/L. The State of Nevada's secondary drinking water standard for TDS is 1,000 mg/L, which indicates that the shallow groundwater is too saline for potable use without treatment.

**Flow:** The design pumping and treatment capacity of this groundwater remediation system is specified as 15 gallons per minute (gpm), which is equivalent to 0.0216 million gallons per day (MGD).

**Rationale for Permit Requirements:** Monitoring requirements for the parameters specified in Table 1 (see below) have been established to ensure that the treatment system is discharging within the Division's allowable limits for petroleum hydrocarbon remediation sites, which discharge to surface waters of the State (Las Vegas Wash).

**Proposed Effluent Limitations and Special Conditions:**

**Table 1: Discharge Limitations (Outfall 001)**

PARAMETER	DISCHARGE LIMITATIONS	MONITORING REQUIREMENTS	
		Measurement Frequency	Sample Type
Discharge Flow, MGD	0.0216	Continuous	Flow Meter
Benzene, $\mu\text{g/L}^1$	5	Weekly/Monthly <sup>2</sup>	Discrete
Ethylbenzene, $\mu\text{g/L}^1$	100	Weekly/Monthly <sup>2</sup>	Discrete
Toluene, $\mu\text{g/L}^1$	100	Weekly/Monthly <sup>2</sup>	Discrete
Xylenes (Total), $\mu\text{g/L}^1$	200	Weekly/Monthly <sup>2</sup>	Discrete
MTBE, $\mu\text{g/L}^1$	20	Weekly/Monthly <sup>2</sup>	Discrete
Total Petroleum Hydrocarbons (TPH), $\text{mg/L}^3$	1.0	Weekly/Monthly <sup>2</sup>	Discrete
Total Dissolved Solids, $\text{mg/L}$	Monitor & Report	Quarterly	Discrete
Total Inorganic Nitrogen as N, $\text{mg/L}$	20	Quarterly	Discrete
Total Phosphorus as P, $\text{mg/L}$	Monitor & Report	Quarterly	Discrete
pH, S.U.	Within 6.5 – 9.0	Quarterly	Discrete

1. EPA Method 8260 (report all parameters).
2. Upon system startup, sampling frequency is weekly for first month of operation, then monthly thereafter.
3. EPA 8015 Modified.

**Schedule of Compliance:** Temporary Discharge Permit (#TNEV2003404) Part I.A.9.c requires this facility to have submitted a P.E. stamped copy of its Operations & Maintenance (O&M) Manual to the Division's Las Vegas Office by **September 20, 2003**. Thus, there is no compliance requirement scheduled for submission to the Division at this time for proposed NPDES permit #NV0023311.

**Procedures for Public Comment:** The Notice of the Division's intent to issue an NPDES permit authorizing the facility to discharge treated groundwater to the Las Vegas Wash, subject to the conditions contained within the permit is being sent to the **Las Vegas Review-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the

Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is **October 30, 2003 by 5:00 P.M.** A copy of the public notice and fact sheet can also be downloaded from the Division's website at the following address: <http://ndep.nv.gov/admin/public.htm>

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

**Proposed Determination:** The Division has made the tentative determination to issue the proposed NPDES permit to the facility for a period of five (5) years.

Prepared by: Mark A. Kaminski, P.E.  
Staff Engineer III  
Bureau of Water Pollution Control

Date: September 25, 2003

Saved to: 7-Eleven#25586\_factsheet